GOVERNMENT OF INDIA
ENVIRONMENT AND FORESTS
LOK SABHA

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CLIMATE CHANGE
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Will the Minister of ENVIRONMENT AND FORESTS be pleased to state:

(a) whether the Government has conducted any scientific study on the climatic changes caused by global warming and its adverse impact on the country;

(b) if so, the details thereof; and

(c) the action plan initiated or proposed to be initiated to address the issue through internal /external agencies assistance?

Answer

MINISTER OF STATE (INDEPENDENT CHARGE) FOR ENVIRONMENT AND FORESTS (SHRIMATI JAYANTHI NATARAJAN)

(a) & (b) A scientific study to assess the impact of climate change has been undertaken and a report titled "Climate Change and India: 4X4 Assessment- A Sectoral and Regional Analysis for 2030s" was published in 2010 by the Government of India. The report has assessed impacts of climate change on four key sectors of Indian economy, namely Agriculture, Water, Natural Ecosystems & Biodiversity and Health in four climate sensitive regions of India, namely the Himalayan region, the Western Ghats, the Coastal Area and the North-East Region.

The study projects a mixed picture of implications for climate parameters and related impacts on the relevant sectors. An overall warming for all the regions is projected. It is projected that all regions will experience an increase in precipitation by 5-10 days. Water yield is projected to increase in the Himalayan Region whereas it is likely to be variable across the other three regions. Change in the composition of the forests and Net Primary Productivity is projected in all the region studied. Malaria is projected to spread in new areas and threats of its transmission are likely to increase for longer duration.

(c) Government of India is aware of the implications of climate change and launched the National Action Plan on Climate Change (NAPCC) on June 30, 2008. The NAPCC outlines eight Missions in specific areas of Solar Energy, Enhanced Energy Efficiency, Sustainable Habitat, Water, Sustaining the Himalayan Eco-system, Green India, Sustainable Agriculture and Strategic knowledge for Climate Change. All the eight National Missions under NAPCC have been approved by Prime Minister's Council on Climate Change. Activities under these Missions are implemented through institutional arrangements at the National and the State level through various ongoing and planned schemes. This also includes a strategy for achieving reduction of emissions intensity of GDP by 20-25% by 2020 in comparison with 2005 level.